

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/13307

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 D04H13/00 D04H3/10 D04H1/46

10/533907

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 D04H D06M C10M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 39 26 008 A (TECHNOTEX KARL MARX STADT VEB) 15 March 1990 (1990-03-15) column 1, line 31 - line 42; claims 1,2 -----	1-8
A	US 2001/000585 A1 (PETERSON ROBERT H ET AL) 3 May 2001 (2001-05-03) paragraph '0046!; figure 1 -----	1-8
X	US 6 108 879 A (CUSICK MICHAEL JOHN ET AL) 29 August 2000 (2000-08-29) column 8, line 26 - line 34 -----	1
X	PATENT ABSTRACTS OF JAPAN vol. 017, no. 617 (C-1129), 15 November 1993 (1993-11-15) & JP 05 186911 A (DAIWABO CREATE KK), 27 July 1993 (1993-07-27) abstract -----	1

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

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Date of the actual completion of the international search

Date of mailing of the international search report

21 April 2004

04/05/2004

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Information on patent family members

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Patent document cited in search report		Publication date		Patent family member(s)		Publication date
DE 3926008	A	15-03-1990	DD DE	275279 A1 3926008 A1		17-01-1990 15-03-1990
US 2001000585	A1	03-05-2001	CA EP JP TW WO	2304963 A1 1029121 A1 2001521846 T 487633 B 9923291 A1		14-05-1999 23-08-2000 13-11-2001 21-05-2002 14-05-1999
US 6108879	A	29-08-2000	AU DE DE EP US WO	4593697 A 69709171 D1 69709171 T2 0947011 A1 6071651 A 9812759 A1		14-04-1998 24-01-2002 20-06-2002 06-10-1999 06-06-2000 26-03-1998
JP 05186911	A	27-07-1993	JP	2568016 B2		25-12-1996